UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 12/31/2008

Michael S Gzybowski Butzel Long Suite 300 350 South Main Street Ann Arbor, MI 48104 EXAMINER

MCCLENDON, SANZA L

PAPER NUMBER

ART UNIT

DATE MAILED: 12/31/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,236	10/07/2005	Tetsuya Watanabe	121036-0088	6297

 $\hbox{\it TITLE OF INVENTION: PROCESS FOR PRODUCTION OF UV-CURABLE LIQUID POLYURE THAN ERSIN}$

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/31/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees v pondence address	vill be and/o	mailed to the current r (b) indicating a sepa	correspondence address arate "FEE ADDRESS" f
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
	7590 12/31	/2008	III.			e of Mailing or Trans	mission
Michael S Gzy Butzel Long Suite 300			I he Stat addi tran	reby certify that the es Postal Service vessed to the Mail smitted to the USP	is Fee(vith su Stop TO (57	s) Transmittal is being ficient postage for fir ISSUE FEE address 'I) 273-2885, on the d	g deposited with the Unite st class mail in an envelop above, or being facsimi ate indicated below.
350 South Main Ann Arbor, MI							(Depositor's name
71111711001, 1111	.0.01						(Signature
							(Date
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/552,236	10/07/2005	•	Tetsuya Watanabe			121036-0088	6297
			ABLE LIQUID POLYURE				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/31/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MCCLENDO		1796	522-174000				
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.56). Change of correspondence address (or Change of Correspondence Address (or Change of Correspondence Address form PTOSB/1/22) attached. The Address form PTOSB/1/22 attached. The Address address indication for "Fee Address" indication form PTOSB/1/22 or more recent) attached. Use of a Customer Number is required.			(I) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or a 2 registered patent atto	E For printing on the patent front page, list 1 the names of up to 3 registered patent attorneys 2 agents OR, alternatively, 2) the name of a single firm (having as a member a 2 egylatered attorney or agent) and the names of up to registered patent altorneys or agents. If no name is 3 steed, no name will be printed.			
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	THE PATENT (print or typ data will appear on the p of a substitute for filing an (B) RESIDENCE: (CITY crinted on the patent):	atent. If an assign assignment. and STATE OR C	OUN"	TRY)	
4a. The following fee(s) ☐ Issue Fee	are submitted:	41	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	ny pre	viously paid issue fee ached. required fee(s), any de	shown above)
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered	attorney or agent; or the	ne assignee or other party i
Authorized Signature			Date				
Typed or printed name				Registration N	lo		
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	FR 1.311. The informatis U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est r depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 c idual case. Any c er, U.S. Patent and D THIS ADDRESS	he pub minute ommen Trader S. SEN	lic which is to file (and is to complete, including to on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	d by the USPTO to proces ig gathering, preparing, ar me you require to comple artment of Commerce, P.G. for Patents, P.O. Box 1450

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



Ann Arbor, MI 48104

UNITED STATES PATENT AND TRADEMARK OFFICE

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10/552,236	10/07/2005	Tetsuya Watanabe	121036-0088	6297
7:	590 12/31/2008		EXAM	UNER
Michael S Gzybowski			MCCLENDO	N, SANZA L
Butzel Long			ART UNIT	PAPER NUMBER
Suite 300 350 South Main St			1796 DATE MAILED: 12/31/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 265 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 265 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/552,236	WATANABE ET AL.
Examiner	Art Unit
Sanza I. McClendon	1796

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 11/10/2008.
- The allowed claim(s) is/are 1-3,5-14,17,19-22 and 24-26.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) I hereto or 2) to Paper No./Mail Date _____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ____

Application/Control Number: 10/552,236 Page 2

Art Unit: 1796

DETAILED ACTION

Response to Amendment

 In response to the Amendment received on November 10, 2008, the examiner has carefully considered the amendments.

Response to Arguments

2. Applicant's arguments, see Remarks/Arguments, filed 11/10/2008, with respect to claims 1-3 and 5-28 have been fully considered and are persuasive. The rejection of 1-3 and 5-26 under 35 USC 103(a) as being unpatentable over Wantabe et al (JP2003-105320) in view of Otaka et al (JP08-092342) has been withdrawn. In view of applicant's amendment defining the instant claims as a method of producing a gasket molding material, it is deemed that the combination of Watanabe et al and Otaka et al is not sustainable because they are not from the said endeavor and are not concerned with the same problems. Wantabe et al does not, alone or in combination expressly teach and/or suggest the use of a lower alkyl substituted alkylene glycol di(meth) acrylate compound in a UV curable liquid polyurethane composition having a viscosity at 25 0C of 150,000 to 1,000,000 mPa*s composition and/process of making a gasket material. In addition, Watanabe et al fails tot teach a HDD gasket or a method of making such comprising the above defined components and composition.

Allowable Subject Matter

- 3. Claims 1-3, 5-14, 17, 19-22, and 24-26 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: the prior art alone or in combination fail to teach and/or express the instantly claimed process for producing a gasket molding material, wherein said material comprises a UV curable liquid polyurethane resin having a viscosity at 25 0C of 150, 000 to 1, 000, 000 mPa*s comprising reacting a composition comprising a polycarbonatediol having a molecular weight of 500 to 5000, a trifunctional alcohol and diisocyanate, and a diisocyanate in

Application/Control Number: 10/552,236

Art Unit: 1796

the presence of a (meth) acrylate compound having the general formula as defined in instant claim 1 and a dimethacrylate compound of an alkylene glycol whose alkylene group is substituted by a lower alkyl group having 1 to 5 carbon atoms and adding a terminating hydroxyl group containing (meth) acrylate. Nor does the prior art alone or in combination teach a method of making a HDD gasket material comprising the above defined UV curable liquid as defined above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L. McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/552,236 Page 4

Art Unit: 1796

Primary Examiner, Art Unit 1796

SMc